

09288000 CURRANT CREEK NEAR FRUITLAND, UT

Lower Green Basin
Strawberry Subbasin

LOCATION.--Lat 40°12'01", long 110°54'25" referenced to North American Datum of 1927, in NE ¼ SE ¼ SW ¼ sec.21, T.3 S., R.9 W., Uintah Meridian, Wasatch County, UT, Hydrologic Unit 14060004, on left bank 150 feet upstream from bridge on U.S. Highway 40, 30 feet downstream from Deep Creek and 3.5 miles southwest of Fruitland.

DRAINAGE AREA.--140 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1934 to September 2003, October 2005 to September 2006. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water stage recorder. Elevation of gage is 6,670 ft above NGVD of 1929, from topographic map. August 6, 1952 to November 8, 1966, water-stage recorder at site 150 ft downstream at datum 1.30 ft lower. See WSP 1733 for history of changes prior to August 6, 1952.

REMARKS.--Records good. Currant Creek feeder canal, constructed by the Bureau of Reclamation in 1936, diverts water from headwaters of Currant Creek to Strawberry Reservoir, from which it is diverted through Strawberry Tunnel to the Great Basin for irrigation in Strawberry Valley project. Beginning in 1962, Deep Creek was diverted intermittently into private fish ponds and entered Currant Creek 400 ft below gage. However, since approximately 1976 when the upstream pond was washed out, Deep Creek has been entering Currant Creek 30 ft above gage. Flow partially regulated by Currant Creek Reservoir 15 miles upstream, beginning October 4, 1982. Total capacity, 15,670 Acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1260 ft³/s, May 4, 1952, gage height, 2.72 ft, site and datum then in use; maximum gage height, 5.92 ft, Jan 27, 1974, backwater from ice; minimum recorded 3.6 ft³/s, Aug 9, 10, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 265 ft³/s, Dec 5, gage height, 2.76 ft; minimum daily discharge, 19 ft³/s, Dec 8.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	27	30	30	30	32	34	54	43	37	38	35
2	---	27	34	29	30	31	41	53	43	36	35	35
3	---	28	30	30	29	32	44	55	42	36	35	35
4	---	28	26	29	29	31	48	54	42	36	35	35
5	---	29	22	26	29	30	53	54	42	35	35	35
6	---	28	25	28	26	31	49	53	43	36	35	36
7	---	28	24	29	27	32	46	52	43	37	35	37
8	---	29	19	30	28	31	51	52	44	36	35	38
9	---	30	26	23	29	30	57	51	47	36	34	38
10	---	30	30	24	27	30	56	50	48	36	34	38
11	---	30	29	31	24	29	53	49	45	36	34	38
12	---	31	28	30	27	30	49	50	43	36	35	37
13	---	31	30	25	29	28	52	51	41	35	34	36
14	---	32	25	29	29	27	53	51	41	35	34	37
15	---	31	24	31	30	30	55	50	41	34	34	37
16	---	30	26	24	25	28	54	48	42	34	35	38
17	---	31	27	28	27	30	53	48	42	35	34	38
18	---	30	30	33	30	29	48	49	42	34	34	37
19	---	30	30	30	28	29	45	50	41	35	34	37
20	26	29	30	26	24	28	45	50	40	35	34	35
21	25	29	29	26	26	29	44	49	39	35	34	35
22	26	29	29	25	29	28	44	48	39	34	34	35
23	25	29	30	27	28	29	46	47	38	35	34	35
24	25	29	29	27	28	30	48	46	38	35	35	34
25	26	29	28	30	28	31	48	45	38	35	35	34
26	27	30	28	32	29	32	46	45	38	35	36	36
27	27	27	28	30	30	30	47	45	37	34	36	37
28	28	26	28	27	31	30	51	45	37	34	35	38
29	28	27	29	31	---	36	52	46	35	34	35	39
30	28	29	27	31	---	34	53	45	36	35	35	39
31	28	---	31	31	---	33	---	44	---	36	34	---
Total	---	873	861	882	786	940	1,465	1,529	1,230	1,092	1,076	1,094
Mean	---	29.1	27.8	28.5	28.1	30.3	48.8	49.3	41.0	35.2	34.7	36.5
Max	---	32	34	33	31	36	57	55	48	37	38	39
Min	---	26	19	23	24	27	34	44	35	34	34	34
Ac-ft	---	1,730	1,710	1,750	1,560	1,860	2,910	3,030	2,440	2,170	2,130	2,170

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986-2003, 2005-06, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	33.9	33.4	31.4	31.7	32.6	36.5	49.5	59.9	59.6	40.9	37.9	37.9
Max	53.3	52.3	53.1	49.9	48.1	60.7	84.3	117	216	84.9	69.5	64.0
(WY)	(1999)	(1999)	(1999)	(1999)	(1999)	(1986)	(1986)	(1986)	(1998)	(1998)	(1998)	(1998)
Min	25.7	24.9	22.7	23.2	24.3	26.9	31.6	27.5	25.4	25.8	24.6	24.6
(WY)	(1989)	(1991)	(1992)	(1992)	(1989)	(1992)	(1992)	(1992)	(1992)	(1992)	(1988)	(1988)

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SUMMARY STATISTICS

	Water Years 1986-2003, 2005-06	
Annual mean	40.7	
Highest annual mean	74.6	1998
Lowest annual mean	26.1	1992
Highest daily mean	242	Jun 21, 1998
Lowest daily mean	12	Dec 22, 1990
Annual seven-day minimum	19	Dec 20, 1990
Annual runoff (ac-ft)	29,510	
10 percent exceeds	58	
50 percent exceeds	35	
90 percent exceeds	26	

